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7.15

Step 1

Both the SIMD and MIMD machines have multiple processors and can operate on different pieces of data in parallel. However in SIMD, all processors must execute the same instruction at the same time, while in MIMD, each processor can execute a different instruction.

Step 2

The main key difference between a MIMD and SIMD is the SIMD needs only one copy of the code that is being simultaneously executed, while message-passing MIMD's may need a copy in every processor, and shared memory MIMD will need multiple instruction caches.